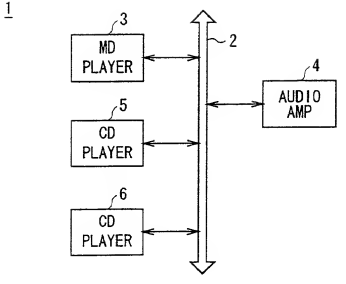

FIG.1

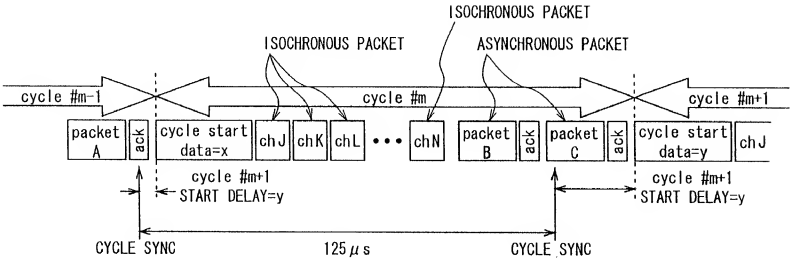

FIG. 2

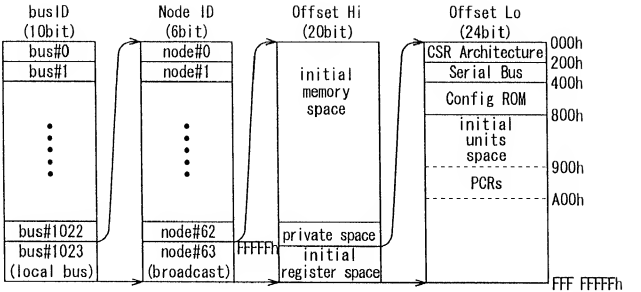

FIG. 3

OFFSET	NAME	OPERATION
000h	STATE_CLEAR	CONDITION AND CONTROL INFORMATION
004h	STATE_SET	SET STATE-CLEAR BIT
008h	NODE_IDs	SHOW 16-BIT NODE ID
00Ch	RESET_START	START COMMAND RESET
018h-01Ch	SPLIT_TIMEOUT	MEASURE THE MAXIMUM TIME OF SPLIT
200h	CYCLE_TIME	CYCLE TIME
210h	BUSY_TIMEOUT	DEFINE RETRY CONTROL
21Ch	BUS_MANAGER	SHOW ID OF BUS MANAGER
220h	BANDWIDTH_AVAILABLE	SHOW BANDWIDTH AVAILABLE TO ISOCHRONOUS COMMUNICATIONS
224h-228h	CHANNELS_AVAILABLE	SHOW USAGE CONDITION OF EACH CHANNELPAGE

FIG. 4

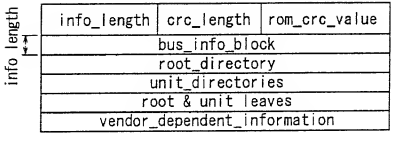

FIG. 5

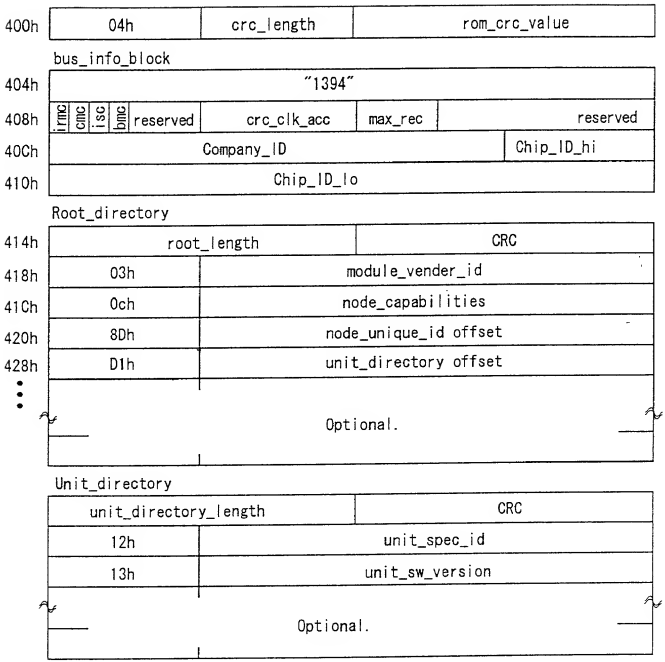
400h
04h
crc_length
rom_crc_value
bus_info_block
404h
"1394"
408h
irmc
cmc
isg
bmc
reserved
crc_clk_acc
max_rec
reserved
40Ch
Company_ID
Chip_ID_hi
410h
Chip_ID_lo
Root_directory
414h
root_length
CRC
418h
03h
module_vender_id
41Ch
0ch
node_capabilities
420h
8Dh
node_unique_id offset
428h
D1h
unit_directory offset
Optional.
Unit_directory
unit_directory_length
CRC
12h
unit_spec_id
13h
unit_sw_version
Optional.

FIG. 6

900h	Output Master Plug Register
904h	Output Plug Control Register #0
908h	Output Plug Control Register #1
⋮	⋮
97Ch	Output Plug Control Register #30
980h	Input Master Plug Register
984h	Input Plug Control Register #0
988h	Input Plug Control Register #1
⋮	⋮
9FCh	Input Plug Control Register #30

FIG. 7

FIG. 8A

oMPR

data rate capacity	broadcast channel base	non-persistent extension field	persistent extension field	reserved	number of output plugs
2	6	6	6	3	5 (bit)

FIG. 8B

oPCR [n]

on-line	broadcast connection counter	point-to-point connection counter	reserved	channel number	data rate	overhead ID	playload
1	1	6	2	6	2	4	10 (bit)

FIG. 8C

iMPR

data rate capacity	reserved	non-persistent extension field	persistent extension field	reserved	number of output plugs
2	6	6	6	3	5 (bit)

FIG. 8D

iPCR [n]

on-line	broadcast connection counter	point-to-point connection counter	reserved	channel number	reserved
1	1	6	2	6	16 (bit)

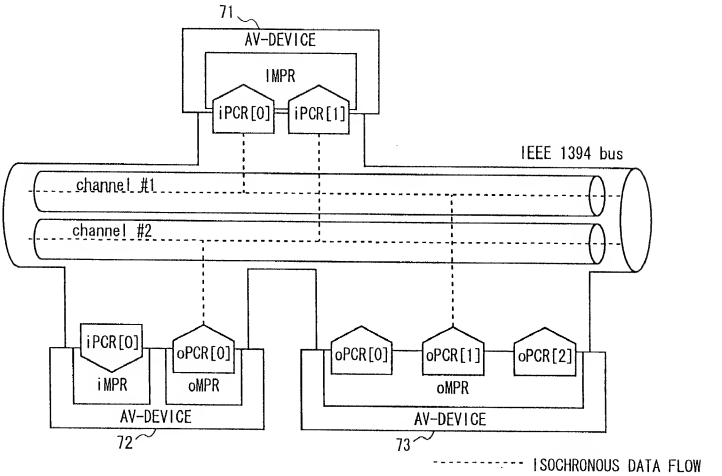

FIG. 9

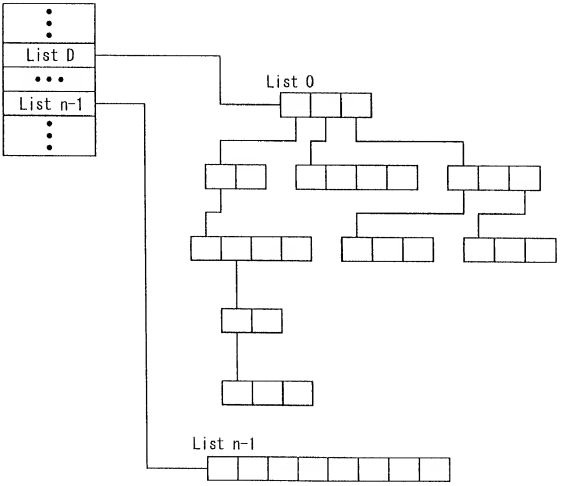

FIG. 10

The General Subunit Identifier Descriptor	
address	contents
00 00$_{16}$	descriptor_length
00 01$_{16}$	
00 02$_{16}$	generation_ID
00 03$_{16}$	size_of_list_ID
00 04$_{16}$	size_of_object_ID
00 05$_{16}$	size_of_object_position
00 06$_{16}$	number_of_root_object_lists(n)
00 07$_{16}$	
00 08$_{16}$	root_object_list_id_0
•	
•	•
•	•
•	root_object_list_id_n-1
•	
•	
•	subunit_dependent_length
•	
•	
•	subunit_dependent_information
•	
•	
•	manufacturer_dependent_length
•	
•	
•	manufacturer_dependent_information
•	
•	

FIG. 11

generation_ID values	
generation_ID	meaning
00_{16}	Data structures and command sets as specified in the AV/C General Specification, version 3.0
all others	reserved for future specification

FIG. 12

List ID Value Assignment Ranges	
range of values	list definition
0000_{16}-$0FFF_{16}$	reserved
1000_{16}-$3FFF_{16}$	subunit-type dependent
4000_{16}-$FFFF_{16}$	reserved
$1\ 0000_{16}$-max list ID value	subunit-type dependent

FIG. 13

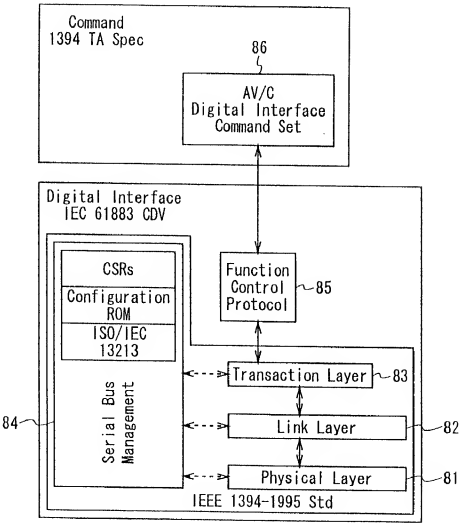

FIG. 14

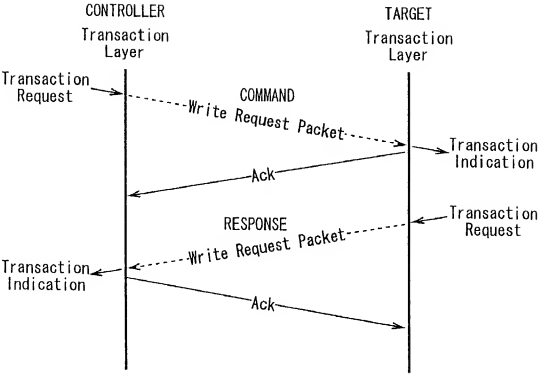

FIG.15

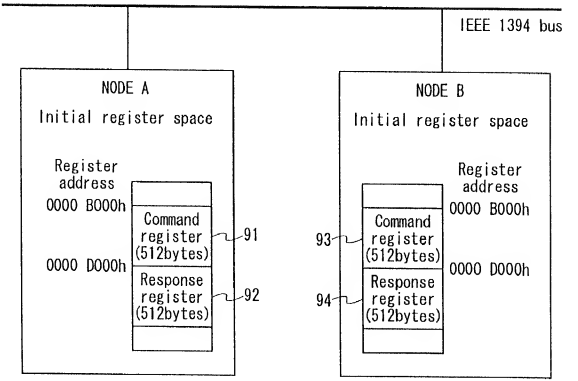

FIG. 16

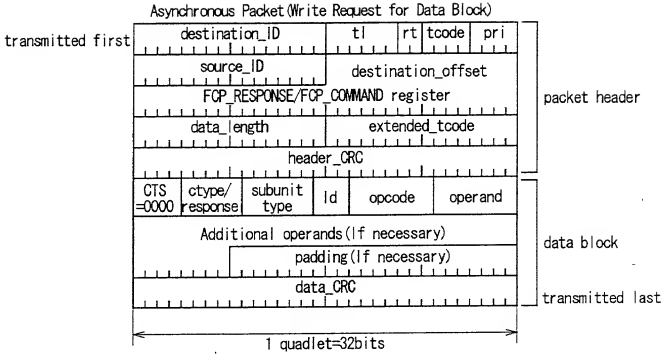
Asynchronous Packet(Write Request for Data Block)
transmitted first
destination_ID
tl
rt
tcode
pri
source_ID
destination_offset
FCP_RESPONSE/FCP_COMMAND register
data_length
extended_tcode
header_CRC
packet header
CTS =0000
ctype/ response
subunit type
Id
opcode
operand
Additional operands(If necessary)
padding(If necessary)
data_CRC
data block
transmitted last
1 quadlet=32bits

FIG. 17

ctype/response

Command	0000 CONTROL
	0001 STATUS
	0010 SPECIFIC INQUIRY
	0011 NOTIFY
	0100 GENERAL INQUIRY
	0101
	≀ (reserved for future specification)
	0111
Response	1000 NOT IMPLEMENTED
	1001 ACCEPTED
	1010 REJECTED
	1011 IN TRANSITION
	1100 IMPLEMENTED/STABLE
	1101 CHANGED
	1110 (reserved for future specification)
	1111 INTERIM

FIG. 18A

subunit_type

00010	Video monitor
≀	(reserved)
00011	Disc recorder/ Player
00100	Tape recorder/ Player
00101	Tuner
00111	Video Camara
≀	(reserved)
11100	Vendor unique
11101	reserved
11110	Subunit type extended to next byte
11111	Unit

FIG. 18B

opcode:Operation Code

00h	VENDOR-DEPENDENT
50h	SEARCH MODE
51h	TIMECODE
52h	ATN
60h	OPEN MIC
61h	READ MIC
62h	WRITE MIC
C1h	LOAD MEDIUM
C2h	RECORD
C3h	PLAY
C4h	WIND
≀	≀

FIG. 18C

FIG. 19A

AV/C	control	tape recorder /player	id= ID0	PLAY	FORWARD
CTS= 0000	ctype= 0000	subunit type= 00100	id= 000	opcode= C3h	operand= 75h

FIG. 19B

AV/C	accepted	tape recorder /player	id= ID0	PLAY	FORWARD
CTS= 0000	response =1001	subunit type= 00100	id= 000	opcode= C3h	operand= 75h

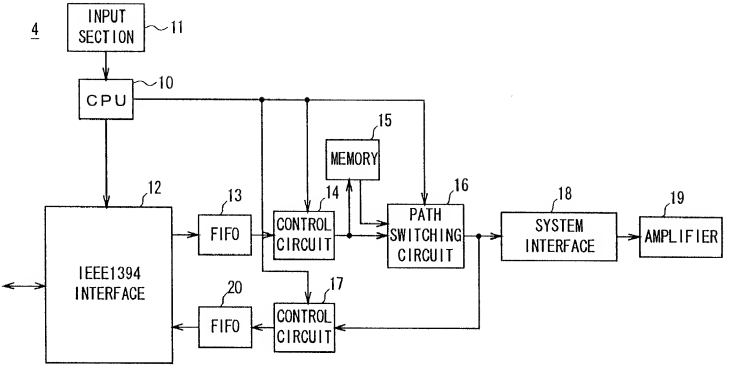

FIG.20

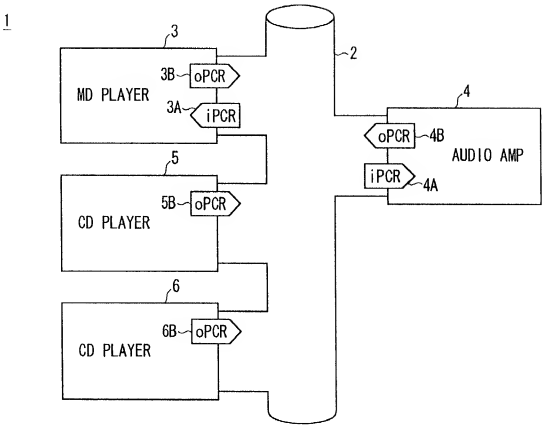

FIG.21

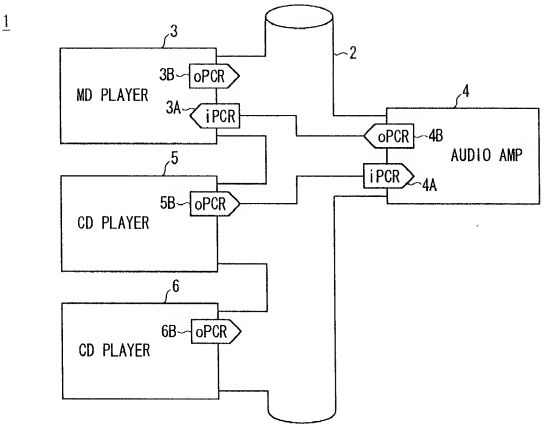
1
3
MD PLAYER
3B
oPCR
3A
iPCR
2
4
oPCR
4B
AUDIO AMP
iPCR
4A
5
CD PLAYER
5B
oPCR
6
CD PLAYER
6B
oPCR

FIG.22

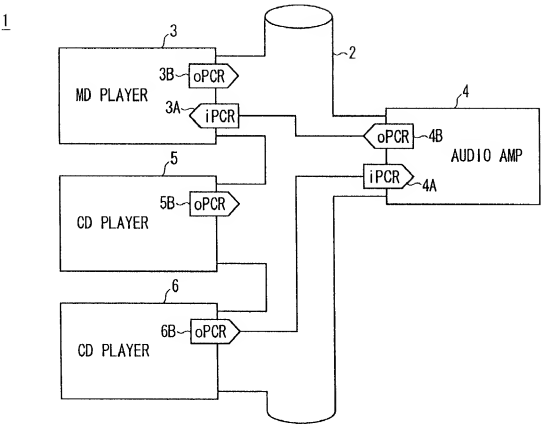

FIG.23